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Bachelor of Science (B.Sc.) Semester–II (C.B.S.) Examination ENVIRONMENTAL SCIENCE

(Introduction to Ecosystem and Biodiversity)

Compulsory Paper—2

I im	e : 1	nree Hours] [Maximum Marki	s : 50
N.B	s. :—	- (1) All questions are compulsory and carry equal marks.	
		(2) Illustrate your answer with suitable examples and diagrams.	
1.	Wha	at is biomes? Explain the major terrestrial biomes of the world.	10
		OR	
	(a)	Discuss the various steps involved in oxygen cycle.	5
	(b)	Define ecosystem. Explain pond as an aquatic ecosystem.	5
2.	Define biogeochemical cycles. How are the classified? Explain sulphur cycle with an illustration		on.
		93	10
		OR	
	(a)	Define productivity. Explain the factors affecting the productivity.	5
	(b)	Discuss the light and dark bottle method for measuring primary productivity.	5
3.	Wha	at is deforestation? Give an account of the major factors responsible for deforestation.	10
		OR	_
	(a)	Explain the issue connected with Chipko movement.	5
4		What are the objectives of national forest policy?	5
4.	What are Hot-spots of biodiversity? Which are the hot-spots found in India? Add an informative		
	note	e on salient features.	10
	(a)	What is meant by In-situ and Ex-situ conservation of biodiversity? Give examples.	5
	(b)	Explain the factors responsible for loss of biodiversity.	5
5.	Write in short (any ten):		
	(a)	What are the biotic and abiotic component of an ecosystem ?	
	(b)	What are food chain and food webs ?	
	(c)	What are the examples of terrestrial ecosystem ?	
	(d)	Name the stages involved in nitrogen cycle.	
	(e)	What do you mean by net primary productivity ?	
	(f)	Explain the chlorophyll method used for the measurement of primary productivity.	
	(g)	Name the methods to control forest fires.	
	(h)	What are types of social forestry?	
	(i)	What does JFM stand for ?	
	(i) (j)	Distinguish between endangered and endemic species.	
	(k)	Significance of Biodiversity register.	
			1=10
	(1)	what do you mean by option value of biodiversity?	1-10